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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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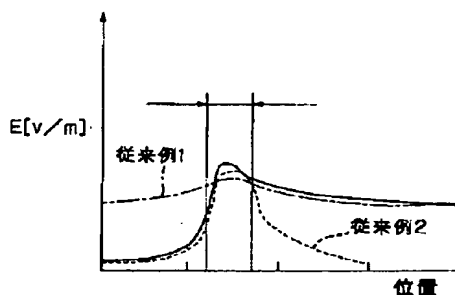
(54) **IMAGE FORMING DEVICE**

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(57) Abstract:

**PROBLEM TO BE SOLVED:** To suppress generation of ozone and nitrogen oxides and further to prevent toner splashing and generation of retransfer at the time of transferring a toner image on an intermediate transferring belt in an image forming device typically provided with an intermediate transferring body.

**SOLUTION:** The image forming device is provided with a contact transfer member such as a transfer roller and the intermediate transferring belt has anisotropic electrical conductivity in which electrical resistance is relatively low in a thickness direction of the intermediate transferring belt and is relatively high in a moving direction of the intermediate transferring belt at least at a transfer position. Further the image forming device has a post nip part voltage impressing means for impressing voltage of the same polarity as that of transfer voltage impressed to the transfer position by the contact transfer member to a post nip part of the intermediate transferring belt being continuous to the transfer position at a downstream side in a belt moving direction.



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Derwent WPI

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Image forming device e.g. copier has voltage supplying unit which impresses voltage of like pole property to specific nip portion along downstream side of moving direction

Patent Assignee: FUJI XEROX CO LTD (XERF )

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Abstract (Basic): **JP 2002229346 A**

NOVELTY - The transfer belt has low electrical resistance in thickness direction and high electrical resistance along moving direction. A voltage supplying unit impresses voltage of like pole property to specific nip portion along downstream side of belt moving direction, between intermediate transfer belt and transfer roller.

USE - Image forming device such as copier, facsimile and printer.

ADVANTAGE - Restrains generation of ozone or nitrogen oxide by impressing of voltage to nip portion and thus prevents toner scattering at the time of transferring toner image.

DESCRIPTION OF DRAWING(S) - The figure shows the applied voltage current characteristics of the image forming device. (Drawing includes non-English language text).

pp; 30 DwgNo 14/28

Title Terms: IMAGE; FORMING; DEVICE; COPY; VOLTAGE; SUPPLY; UNIT; IMPRESS; VOLTAGE; POLE; PROPERTIES; SPECIFIC; NIP; PORTION; DOWNSTREAM; SIDE; MOVE ; DIRECTION

Derwent Class: P84; S06

International Patent Class (Main): G03G-015/16

File Segment: EPI; EngPI

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